



PATENT

I fw

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Paul Martin et al.

Title: SHARED SYNCHRONIZED SKIP-LIST DATA STRUCTURE AND
TECHNIQUE EMPLOYING LINEARIZABLE OPERATIONS

Application No.: 10/653,828

Filed: September 3, 2003

Examiner: Unknown

Group Art Unit: 2157

Atty. Docket No.: 004-7982

Confirmation No.: 4116

January 27, 2006

Mail Stop Amendment
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450**INFORMATION DISCLOSURE STATEMENT****37 C.F.R. § 1.97(b)**

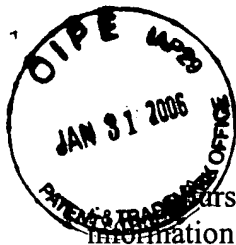
Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings to the Examiner's attention in the above-identified application the patents, publications, applications or other information identified in the attached:

- ☐ Form(s) PTO/SB/08A (N/A page(s), with copy of no reference(s)).
- ☒ Form(s) PTO/SB/08B (1 page(s), with copy of 15 reference(s)).
- ☐ Listing of Pending Applications (N/A page(s), with copy of no application(s)).
- ☐ Other: N/A

Citation of such information shall not be construed as (i) an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention, (ii) a representation that a search has been made, other than as described herein, or (iii) an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract, (ii) an English language equivalent application, or (iii) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

CERTAIN COPIES NOT INCLUDED

Pursuant to operative regulations, certain copies need not be provided and corresponding information is identified in this Information Disclosure Statement by citation only. In particular,

- ☒ In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of cited U.S. Patents and U.S. Patent Application Publications are not included.
- ☐ Certain information was submitted to, or cited by, the Office in Application No(s). N/A, filed N/A, to which the above-identified application claims priority under 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), copies of that information are not included.
- ☐ Pursuant to 1287 OG 163 (October 19, 2004), for those cited pending U.S. patent applications filed (or which entered the national stage under 35 U.S.C. § 371) on or after June 30, 2003 or which are otherwise stored in the USPTO's Image File Wrapper system, copies are not included.

FEE AUTHORIZATION

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
- ☒ The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No. 50-0631.

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that, on the date shown below, this correspondence is being

- ☒ deposited with the US Postal Service with sufficient postage as first class mail and addressed as shown above.
- ☐ facsimile transmitted to the US Patent and Trademark Office.

Kimberley Elcess
Kimberley Elcess

27-Jan-06
Date

EXPRESS MAIL LABEL: _____

Respectfully submitted,

Kimberley Elcess

Kimberley Elcess, Reg. No. 36,128
Agent for Applicant(s)
(512) 338-6321 (direct)
(512) 338-6300 (main)
(512) 338-6301 (fax)

PTO/SB/08B (Substitute for form 1449/PTO)		Attorney Docket No.: 004-7982	
		Application No.: 10/653,828	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		First Named Inventor: Paul A. Martin	
		Filing Date: September 3, 2003	
		Group Art Unit: 2157	
		Examiner Name: Not yet known	
Sheet 3 of 1		Date Submitted: January 27, 2006	
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	ANDERSON, James H. et al., "Universal Constructions for Large Objects," <i>IEEE Transactions on Parallel and Distributed Systems</i> , vol. 10, no. 12, pp. 1317-1332, 1999.	
	2	HARRIS, T., et al., "Language Support for Lightweight Transactions," <i>Proc. 18th Annual ACM SIGPLAN Conf. on Object-Oriented Programming Systems, Languages, and Applications</i> , pp. 388-402, ACM Press, New York, NY, 2003.	
	3	HERLIHY, Maurice, "Dynamic-Sized Lockfree Data Structures," Sun Microsystems Technical Report SMLI TR-2002-112, June 2002.	
	4	HERLIHY, Maurice et al., "The Repeat Offender Problem: A Mechanism for Supporting Dynamic-Sized Lock-Free Data Structures," Sun Microsystems Technical Report SMLI TR-2002-112, June 2002.	
	5	HERLIHY, Maurice et al., "Obstruction-Free Synchronization: Double-Ended Queues as an Example," <i>Proceedings of the 23rd International Conference on Distributed Computing</i> , p. 522, IEEE Computer Society, Washington, D.C., 2003.	
	6	JAYANTI, P., et al., "Efficient and Practical Constructions of LL/SC Variables," <i>Proceedings of the 22nd Annual ACM Symposium on the Principles of Distributed Computing</i> , pp. 285-294, ACM Press, New York, NY, 2003.	
	7	MARTIN, Paul et al., "DCAS-Based Concurrent Deques Supporting Bulk Allocation," Sun Microsystems, Inc. Technical Report SMI TR-2002-111, October 2002.	
	8	MICHAEL, Maged M. et al., "Non-Blocking Algorithms and Preemption Safe Locking on Multiprogrammed Shared Memory Multiprocessors," <i>Journal of Parallel and Distributed Computing</i> , vol. 51, no. 1, pp. 1-26, May 25, 1998.	
	9	MICHAEL, Maged M. et al., "Safe Memory Reclamation for Dynamic Lock-Free Objects Using Atomic Reads and Writes," <i>Proceedings of the 21st Annual ACM Symposium on the Principles of Distributed Computing</i> , pp. 21-30, ACM Press, New York, NY, 2002.	
	10	PRAKASH, Sundeep et al., "Non-Blocking Algorithms for Concurrent Data Structures," Technical Report 91-002, University of Florida, July 1, 1991 [URL: http://citeseer.ist.psu.edu/prakash91nonblocking.html].	
	11	PRAKASH, Sundeep et al., "A Nonblocking Algorithm for Shared Queues Using Compare-and-Swap," <i>IEEE Transactions on Computers</i> , vol. 43, no. 5, pp. 548-559, May 1994.	
	12	SHANN, Chien-Hua et al., "A Practical Nonblocking Queue Algorithm Using Compare-and Swap," <i>Proceedings of the Seventh International Conference on Parallel and Distributed Systems</i> p. 470, IEEE Computer Society, Washington, D.C., 2000.	
	13	SHAVIT, N., et al., "Elimination Trees and the Construction of Pools and Stacks," <i>Theory of Computing Systems</i> , vol. 30, pp. 645-670, 1997.	
	14	SHAVIT, N., et al., "Software Transactional Memory," <i>Distributed Computing</i> , vol. 10, no. 2, pp. 99-116, February 1997.	
	15	VALOIS, John D., "Lock-Free Linked Lists Using Compare-and-Swap," <i>Proceedings of the Fourteenth ACM Symposium on Principles of Distributed Computing</i> , pp. 214-222, ACM Press, New York, NY 1995.	
Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here if English language Translation is attached.